

APPENDIX A: AMENDMENTS TO CLAIMS

1. (Twice Amended) A contoured structural member, comprising:
a continuous plurality of contoured inner layers comprising a metal-containing material;
a continuous plurality of contoured outer layers comprising a metal-containing material;
and
at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer.

4. (Twice Amended) [The structural member of claim 1,] A contoured structural member, comprising:

a plurality of contoured inner layers comprising a metal-containing material;
a plurality of contoured outer layers comprising a metal-containing material; and
at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer;

wherein the plurality of contoured inner layers is formed of a continuous sheet, the plurality of contoured outer layers is formed of a continuous sheet, or the plurality of inner contoured layers and the plurality of contoured outer layers are both formed from continuous sheets.

5. (Amended) The structural member of claim 1, wherein the metal-containing material [is a light metal] comprises magnesium, aluminum, titanium, zinc, molybdenum, or alloys thereof.

6. (Amended) The structural member of claim 5, wherein the [light metal] metal-containing material is aluminum or an alloy thereof.

7. (Amended) The structural member of claim 1, wherein the metal-containing material [is a heavy metal] comprises iron, copper, nickel, carbon steel, stainless steel, alloy steel, tin, or alloys thereof.

8. (Amended) The structural member of claim 7, wherein the metal-containing material is stainless steel or an alloy thereof.

14. (Canceled)

15. (Amended) [The structural member of claim 14,] A contoured structural member, comprising:

at least one contoured inner layer comprising a composite material;

at least one contoured outer layer comprising a metal-containing material;

and at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer, wherein the ribbed structure of the at least one intermediate layer comprises a honeycomb structure.

22. (Twice Amended) [The method of claim 21,] A method for making a contoured structural member, comprising:

roll wrapping at least one inner layer comprising a metal-containing material over a substrate, [including] wherein the at least one inner layer comprises a plurality of layers;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure;

roll wrapping at least one outer layer over the at least one intermediate layer, the at least one outer layer comprising a metal-containing material; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

23. (Twice Amended) [The method of claim 21,] A method for making a contoured structural member, comprising:

roll wrapping at least one inner layer comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure;

roll wrapping at least one outer layer over the at least one intermediate layer, the at least one outer layer comprising a metal-containing material, [including] wherein the at least one outer layer comprises a plurality of layers; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

34. (Amended) A contoured structural member made by the method comprising:
providing at least one inner layer using a continuous sheet comprising a metal-containing material;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure; and

providing at least one outer layer over the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

35. (Amended) A contoured structural member made by the method comprising:
roll wrapping at least one inner layer using a continuous sheet comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure; and

roll wrapping at least one outer layer covering the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and

removing the shrink-wrap material and the substrate.

36. (Amended) A contoured structural member made by the method comprising:

roll wrapping at least one inner layer using a continuous sheet comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer having a honeycomb structure to be substantially contiguous with the at least one inner layer; and

roll wrapping at least one outer layer to be substantially contiguous with the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and

removing the shrink-wrap material and the substrate.

41. (New) A contoured structural member, comprising:

a plurality of solid contoured inner layers comprising a metal-containing material;

a plurality of solid contoured outer layers comprising a metal-containing material; and

at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer.